## EESD06H3: Climate Change Impact Assessment

Instructor Information:

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Office hours: Thursday 9:30 to 12:30 pm (January 26 to April 20)

Appointments can be made be mail on any day except Friday

Course Webpage is on the Blackboard:

- y PowerPoint presentations
- v Announcements

Course Description:

Climate change over the last 150 are is reviewed by examining the climate record using both direct measurements and proxy data. Projection of future climate is reviewed using the results of sophisticated climate modeling. The climate change impact assessment formalism is introduced and aligned to several examples. Students will acquire practical experience in climate change impact assessment through case studies.

## Skills:

You have to have skill in the general use of computers and spreadsheet use. You need this to assemble and transformious data files. Basic mathematical skills are required: simple arithmetic, algebraic notation, order of operations, to note a few. You will learn the practical skill of analyzing climated at a and its application to Climate Change Impact Assessments you will also develop the thinking skill of usir alimate Change information toCCIA.

## Attitudes:

First, active participation reading, asking questions and exploring topic material. Secondly, then dependence develop your own writing style, and presenting would be a second by the se original work. Thirdly, an aiof skeptical assessmestich that if good results are obtained, you say so, but you also show an awareness of the limitations.

Lecture Topics (tentative)

- Š Jan13 ±Introduction, Climate Science Mohsin
- Š Jan 20 ±Climate Sciene II Mohsin
- Š Jan 27 ±Climate Modelling and CCIA formalismMohsin
- Š Feb 3 ±Canadian Climate Change SceioarNetwork (CCCSN)- Mohsin Š Feb 10 ±IPCC Process±M. Mirza

- Š Feb 17 Downscaling Techniques Mohsin
  Š Feb 24 Reading Week
  Š Mar 3 Midterm
  Š Mar 10 Statistical Downscaling Mohsin
  Š Mar 17 CIA Examples Mohsin
  Š Mar 24 Applied Climatology- Mohsin
  Š Mar 31 Debates
  Š April 7 Debates

Tutorial s:

Time and place to be announced

Evaluation:

| Assignments3() | 30% |
|----------------|-----|
| Participation  | 10% |
| Midterm        | 25% |
| Debate         | 35% |

Midterm (2 hours) will occur in class MARCH 3. Detail of the debate will be discussed h class.

Text Book:

Although no text book has been assigned to this coutherfollowing readings are recommended, which will be helpful to understamel course materials.